

Facility Name _____	SAP ID #s. _____
Address _____	Other Reports _____
Co-City-Vic _____	No. Photos _____ No. Sketches _____
Mo/Day/Yr _____/_____/_____ Time _____ use 24 hr.	Ref. Dwgs. _____
Type of Disaster _____	Est. Damage % _____
	Facility Status <div style="border: 1px solid black; width: 150px; height: 30px; display: inline-block;"></div>

SAFETY INSTRUCTIONS: The possibility of toxic gases in confined spaces or of fuel leaks should be recognized as a potential hazard.

CAUTION: The primary purpose of the report is to advise of the condition of the facility for immediate continued use/occupancy. REINSPECTION OF THE FACILITY IS RECOMMENDED. AFTERSHOCKS MAY CAUSE DAMAGE THAT REQUIRES REINSPECTION. The conclusions reached by engineers who re-examine the facility later should take precedence. The assessment team will not render further advice in the event of conflict of engineering recommendations.

A. CONDITION:

Existing: None ☐ Recommended: Green ☐ Posted at this assessment: Yes ☐
Green ☐ Yellow ☐ No ☐
Yellow ☐ Red ☐
Red ☐

B. RECOMMENDATIONS

Monitor _____ <input type="radio"/>	Continue in service, repair ASAP _____ <input type="radio"/>
Remove from service _____ <input type="radio"/>	Drain and repair _____ <input type="radio"/>
Continue in service _____ <input type="radio"/>	Lower water level and continue service _____ <input type="radio"/>
.	_____ ft

_____	_____
_____	_____
_____	_____

C. COMMENTS _____

Facility Name _____ SAP ID #s _____

STEEL RESERVOIR

D. RESERVOIR DESCRIPTION

Capacity _____ MG Wall Height _____ ft O/S Diameter _____ ft

Roof Type ☐ Wood ☐ Steel ☐ Flat ☐ Conical ☐ Knuckled Edge

Shell ☐ Welded ☐ Bolted ☐ Riveted

Floor support ☐ Footing ring ☐ Oiled sand ☐ A.C. ☐ Other _____

Footing ☐ Concrete ring ☐ Other _____ ☐ None

Pipe connection ☐ Rigid ☐ Flexible

Anchorage to foundation _____ Dia. _____ Spacing

DAMAGE OBSERVED (D.O.)

	0	1	2-3-4	5	6	NA	NO
Damage Scale:	None	Slight	Moderate	Severe	Total	Not	Not
	(0%)	(1-10%)	(11 - 40%)	(41 - 60%)	(over 60%)	Applicable	Observed

E. SHELL

D.O.

_____ Elephant's foot

a. Height _____ ft

b. Circumferential extent _____ ft

_____ Other buckling

_____ Horizontal joints broken

_____ Vertical joints broken

_____ Plate split

_____ Seismic anchors

_____ Rocking of reservoir evidenced

_____ Sliding of reservoir evidenced

_____ Leaks evident. Rate _____ gpm

_____ Unexplained wet spots on adjacent ground

_____ Shell penetrations damaged

_____ Other attachments to shell damaged

_____ Pipe Connections to Tank

F. VALVE PIT

D.O.

_____ Access

_____ Control Piping

_____ Gauges

_____ Hatches

_____ Inlet-outlet piping

_____ Pit flooded

_____ Roof

_____ Walls

_____ Charts

_____ Valves

G. _____ Roof

H. _____ Footing

I. _____ Floor

J. _____ Aboveground Piping

K. _____ Underground Piping

L. REMARKS _____

Facility Name _____ SAP ID #s _____

PRESTRESSED CONCRETE RESERVOIR

M. RESERVOIR DESCRIPTION:

Wire or Strand Wrapped

Buttress Type using individual
Tendons, usually inside wall

Bar Tendons on
Tank Surface

TENDONS:

☐ 220 ksi - 0.142" or 0.172" dia

☐ Strands ☐ Wires ☐ Bars

☐ Bars with prop. couplers

☐ 270 ksi - 3/8" dia

WALL CONSTRUCTION:

☐ Cast-in-place

☐ Cast-in-place

☐ Cast-in-place

☐ Shotcrete

☐ Precast

☐ Shotcrete

☐ Shotcrete w/ steel diaphragm

☐ Precast

☐ Precast w/ steel diaphragm

TENDON PROTECTION SYSTEMS:

☐ Shotcrete

☐ Corrosion inhibiting grease

☐ Galvanizing protected by
plastic sheath

☐ Grout

Tank Restraints ☐ Seismic cables ☐ Curb (restraining sliding)

Capacity _____ MG Wall height _____ ft O/S diameter _____ ft

Roof Type: ☐ Flat ☐ Dome Exposed ☐ Fill depth _____ Surface usage _____

☐ Yes ☐ No

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N. SHELL

D.O.

- _____ Shell or shotcrete cracked
- _____ Vertical cracks more than 2 feet long
- _____ Unexplained excessive loss of contents
- _____ Bulging observable
- _____ Visible construction joints
- _____ Wall leaking
- _____ Wet spots
- _____ Spouts
- _____ Horizontal cracks more than 25% of perimeter
- _____ Corrosion at horizontal cracks
- _____ Shotcrete delaminated at cracks
- _____ Attachments to shell loose

O. HORIZONTAL PRESTRESSING

D.O.

- 1. Wrapping:
 - _____ Corrosion
 - _____ Corrosion at horizontal cracks
- 2. Individual tendons:
 - _____ Corrosion products
 - _____ Leaks @ tendon locations
 - _____ Leaks @ tendon anchorages
 - _____ Tendon anchorage distressed
 - _____ Tendon anchorage disrupted/loose
 - _____ Cracking in vicinity of tendon anchorage
 - _____ Tendon location visually observable
 - _____ Discoloration of concrete in line w/tendons

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- ☐ Leaks @ rust stains
☐ Major leaks at shell/foundation joint
☐ Unexplained wet spots on adjacent ground
☐ Corrosion at manholes/other penetrations
 Leakage rate _____ gpm
3. Bar tendons on surface:
☐ Tendons failed
☐ Tendons sound loose
☐ Evidence of rust

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P. ROOF

- D.O.
- Flat or conical
- ☐ Displaced with respect to wall
☐ Sagging
☐ Cracked at edges
☐ Cracked at interior supports
☐ Supporting column spalled
- Dome Shell
- ☐ Shotcrete ☐ CIP concrete
☐ Precast concrete
☐ Construction joints
☐ Cracks
☐ Show reinforcement/corrosion
☐ Increasing with time
☐ Delaminating
☐ Misalignment of surface
☐ Rust lines @ top of soffit over rebars
☐ Dome Ring
☐ Corrosion
☐ Distress @ shell/ring juncture
☐ Shotcrete loose/hollow-sounding
☐ Vertical cracks
☐ Wire (strand) exposed/corroded

D.O.

Q. FOOTING

R. FLOOR

S. ABOVEGROUND PIPING

T. VALVE PIT

- ☐ Access
☐ Control piping
☐ Gauges
☐ Hatches (equipment)
☐ Inlet-outlet piping
☐ Pit flooded (depth _____ ft)
☐ Roof
☐ Walls
☐ Charts
☐ Valves

U. REMARKS
